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SNAP 2015 Question Paper

Symbiosis National Aptitude Test or SNAP Test

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SECTION – I

GENERAL AWARNESS

Number of questions: 40

- **1.** The full form of CSIRO is
 - 1. Comprehensive Scientific and Industrial Research Organization
 - 2. Cross-cultural Scientific and Industrial Research Organization
 - 3. Commonwealth Scientific and Industrial Research Organization
 - 4. Council of Scientific and Industrial Research Organization
- **2.** The full form of UNRISD is
 - 1. United Nations Research Institute for Soviet Development
 - 2. United Nations Research Institute for Scientific Development
 - 3. United Nations Research Institute for Socio-economic Development
 - 4. United Nations Research Institute for Social Development
- 3. Bhaona is a presentation of the Ankia Naat of Assam. In Bhaona the cultural glimpses of _______ is/ are reflected.
 - 1. Assam and Orissa
 - 2. Bengal
 - 3. Mathura and Brindavan
 - 4. All of the above
- 4. Under which Act does the Archaeological Survey of India (ASI) protect monuments, sites and remains of national importance ?

1. AMASR Act, 1958	2. AMASR Act, 1968
3. AMASR Act, 1978	4. AMASR Act, 1948

5. In 2015 the President of India approved conferment of Padma Awards to all of the following but for _____

1. Kharag Singh Valdiya	2. Mohammad Yusuf Khan
3. Lakshmi Gopala Naidu	4. Saichiro Misumi

6. In Grammy Awards 2015 the best folk album was won by _____

l. Pharrell Williams - "Happy"	2. Old Crow Medicine Show – Remedy
3. Rosanne Cash - The River & the Thread	4. None of the above

7. Scientists discovered a new species in the human family tree which is a small creature with a tiny brain. The new species has been named as _____

1. Homo Naledi 2. Dwarf Sapein 3. Dwarf Homo Sapein4. None of the above

- 8. The ministry of external affairs has recently decided to change the nomenclature of Indian Based Domestic Assistance (IBDA) to ______
 - 1. Government Serving Based Domestic Assistance (GSBDA)
 - 2. Swadesh Swatcha Domestic Assistance (SSDA)
 - 3. Service Staff (SS)
 - 4. Bharath Based Service Assistance (BBSA)

9.	The foreign exchange reserve of India consists of						
	 The foreign currency assets held by RBI and the gold holding of RBI The gold holding of RBI and special drawing rights The gold holding of RBI, the foreign currency assets held by RBI and special drawing rights Only the foreign currency assets held by RBI 						
10.	is a cha charge is equal to th	rge for converting bull e cost of bullion to coir	ion into coins where f as transformation.	ree coinage is permitted. This			
	1. Bull-Coin	2. Brassage	3. Bit Coin	4. Coin Levy			
11.	Microsoft introduce app called		for education custome	ers, this includes a note-taking			
	 Office Note class Soft note for class 		 2. Micro Note class 4. One Note class N 				
12.	students from Class		n level in Government	cial assistance to meritorious Schools/Colleges/Universities			
	1.2009	2. 2008	3. 2007	4. None of the above			
13.	The Symbol used for	r reusable microwaveal	ole plastic ware is				
	1.	2.	3.	4. 3			
14.	1.	2.	3.	4.			
15.	Super Blood Moon, v and won't happen aga	which is a rare astronomic	cal phenomenon hasn't h	happened since,			
	1. 1982, 2033	2. 1980, 2035	3. 1978, 2032	4. 1975, 2031			
16.		was initially discov to be at least 9 billion yea		zer Space Telescope in infrared			
	1. ANDROMEDA 3. SAGE0536AGN		2. COSMOS REDSH 4. SUNFLOWER	IIFT			
17.	In the year 2014 Face	ebook bought Whatsapp	forUS Dolla	ars.			
	1.17 billion	2.18 billion	3. 19 billion	4. 20 billion			

18.	Shri Narendra Modi was sworn in as the Prime Minister of India on at the Bhavan in New Delhi.					
	1. 25 th May 2014	2. 19 th May 2014	3. 26 th May 2014	5. 27 th May 2014		
19.	Where is the doldrums	belt located ?				
	 Near the Equator Near the Tropic of C 	Cancer	 2. Near the Poles 4. Near the Tropic of Control 	Capricorn		
20.		a hazardous level in 12 years. This was due	September 2015, forcing the to.			
	 Haze created mainly Haze created mainly 	y due to companies in Ma y due to companies in Inc y due to companies in Ph y due to companies in Vie	lonesia ilippines			
21.	I. In 1347 during the reign of Muhammed Tuglak an Afghan officer named setup independent kingdom called Bahmani Kingdom.					
	1. Mahmud Gawan Ba 3. Hasan Gangu Bahm		2. Mohammad Yusuf Bahmani 4. Khwaja Tuglak Bahmani			
22.	The task of consolidati at the time of his acces		s left to Akbar who was	only years old		
	1. Eleven Years	2. Twelve Years	3. Thirteen Years	4. Fourteen Years		
23.	Smoking in public place	ces was prohibited natior	wide from			
	1. 15 th August2008	2. 02 nd October 2008	3. 15 th August 2009	4. 02 nd October 2009		
24.	A constitutional right can be recognized and established by a sovereign State or union of States.					
	 a prerogative or a duty or a restraint of power a prerogative or a duty, a power or a restraint of power a prerogative or a duty, a power but not a restraint of power a power but not a prerogative or a duty 					
25.	. In Nepal the festival of lights i.e. Diwali is celebrated by some Buddhists as					
	 Tihar Both options a and b)	 Swanti Neither of the option 	ns above		
26.	The term "Vrajapati" u	sed in Indian Mythology	denoted			
	1. The Head of the Village2. The Head of the Family3. The Head of a Society4. The Head of Merchants					

27.	One of India's most distinguished constitutional lawyers who had received brickbats for arguing in favor of Dow Chemicals in the Bhopal gas disaster case is				
	1. Ram Jethmalai	thmalai 2. Fali Nariman 3. Mukul Rohatgi		4. Pramila Nesargi	
28.		rule at another country		her family in Britain, to protest ir of the National League for	
	1. Angela Merkel	2. Christine Lagarde	3. Brito Polman'	4. Aung San Suu Kyi	
29.				orting drone components worth Korea, to regain lost ground in	
	1. France	2. United Kingdom	3. Japan	4. United States of America	
30.		assembly elections 2014 as seats that were announ		seats out	
	1. 335,546	2. 334, 545	3. 336, 543	4. 332,544	
31.	The BS EN 16001 sol	utions from BSI is applic	cable for .		
	 Energy Management Energy Process System 		 Environment Management Systems Environment Standard Systems 		
32.	The WEEE (Waste from Electrical and Electronic Equipment) is a directive that controls				
	 how electric and electronic equipment is handled and recycled how electric and electronic equipment is manufactured and handled how electric and electronic equipment is recycled how electric and electronic equipment is manufactured, handled and recycled 				
33.	The Sensex and Nifty and resp	v are both indices. The b ectively.	ase years for the BSE S	Sensex and Nifty are	
	1. 1980-81 and 1990 3. 1978-79 and 1995		2. 1990-91 and 2000 4. 2000-01 and 2004		
34.	The artist who painted	l Irises, Sunflowers, Red	Poppies, Pink Roses wa	S	
	 Vincent van Gogh Leonardo da Vinci 		 Sandro Botticelli Michelangelo 		
35.	Which Indian satellite	was launched that has a	fantastic timing and reco	ords 1000 th of a second ?	
	1. GSAT-16	2. IRNSS-1D	3. GSAT-6	4. Astrosat	
36.	W3C stands for				
	 Triple Web Consor World Wide Web C 		2. Triple Web Consol 4. World Wide Web C		

	 United States of Ameri Japan 	ica	 United Kingdom All of the above 	
38.	Who is the Indian badminton player who after a appearance at the Korean Open in 2015?		spending an year after his shoulder injury earned a final	
	1. Chetan Anand 2	2. AjayJayaram	3. Parupalli Kashyap	4. Sameer Verma
39.	Tamaasha, the traditional folk theatre form of l		Iaharashtra has evolved	from the folk forms of
	 Gondhal, Jagran and Kirtan Only Gondhal, Jagran 		2. Only Kirtan4. Only Gondhal	
40.	The last series of wall pai	inting in India are from	near Hindupur belongin	ng to 16 th century A.D.
	 Lepakshi temple Sri Venkateswara Swara 	mi Temple	 Shiva temple Ganesh Temple 	

37. The country/countries that has/have resorted to Quantitative easing in the last decade is/are

SECTION – II

ANALYTICAL AND LOGICAL REASONING

Number of questions: 30

41. A bungalow has one of its room located on the first floor and there are three identical 100 watt electrical bulbs fixed in the room. Each bulb is connected to a specific switch located at the basement. There are only three switches in the basement. All the bulbs are switched off at present and you are also at the basement area. The first floor cannot be seen from the basement area. If you are allowed to use your common prudence, what is the minimum number of times that you will have to go from basement to first floor to identify which switch goes to which bulb?

1. 03 times 2. 20 times 3. 01 time 4. 06 times

42. Shyam is running a start-up. His initial investments are high and he is trying hard to manage and increase his cash flow. The sundry expenses that his firm incurs is negligible. He found from his accountant that the amount of pre-paid expenses in the balance sheet, which were booked from the previous year to the current year was increased. Shyam also ensured that his cash funded by the venture capitalists did not reduce when compared to the previous year. The interest that he gets from his fixed deposits increases, which is in tune with his sundry expenses. The final effect on cash for this year would be

1. Cash flow marginally increases	2. Cash flow exponentially increases
3. Cash flow remains the same .	4. None of the above

43. A producer of a drama theatre is creating his weekend schedule. The producer has six plays to choose from: "Made in India", "Laugh for a while", "The Life is your choice", "MBA – Maha Budhiman Aadmi", "Placements -my goal", "MBA Go Getters". The producer sets a schedule based upon the following criteria.

I. "Made in India" must be shown before "The Life is your choice" and "Laugh for a while"

II. "Laugh for a while" must be shown before "MBA - Maha Budhiman Aadmi"

III. "Placements - my goal" must be shown after "The Life is your choice" and "MBA Go Getters"

Which of the following weekend schedules are consistent with the producer's criteria?

1. Made in India, Laugh for a while, The Life is your choice, MBA - Maha Budhiman Aadmi, Placements - my goal and MBA Go Getters.

2. MBA Go Getters, Made in India, Laugh for a while, The Life is your choice, Placements - my goal and MBA - Maha Budhiman Aadmi.

3. Made in India, MBA Go Getters, Placements - my goal, Laugh for a while, MBA – Maha Budhiman Aadmi and The Life is your choice.

4. Made in India, MBA Go Getters, MBA - Maha Budhiman Aadmi, The Life is your choice, Placements - my goal and Laugh for a while

44. Mr. Peter gave his eldest son David a bag with 1000 gold coins. David took 230 gold coins from the bag and gave the rest to his younger brothers John, Joe and Jonathan, and advised them to distribute the balance left in the bag amongst themselves in proportion to their age which together amounted to 17.5 years. After a lot of deliberation and discussion John, Joe and Jonathan came to a conclusion to distribute the gold coins. Their methodology was as follows: As often John took 4 gold coins, Joe took 3. As often John took 6 gold coins Jonathan took 7.

What was the age of John, Joe and Jonathan?

1. 6 years, 4.5 years and 7 years respectively

2. 5 years, 5.5 years and 7 years respectively

3. 6 years, 5 years and 6.5 years respectively

4. 5 years, 6.5 years and 6 years respectively

46.

45. Mohan has an antique clock which strikes and makes loud gong sound every hour. It strikes the exact number of times indicating the time of the day or night. His clock takes seven seconds to strike Seven O' clock, how many seconds will his clock take to strike Eleven O'clock?

1. 11.22222227 seconds 3. 11.666666667 seconds .	 2. 11 seconds 4. None of the above
Find the missing number : 2, 6, 20, 42,110	

1. 126 2. 156 3. 176 4. 196

47. Fifteen years back, Ms. Kalpana had three sons Ramesh, Suresh and Rajesh. The sum of the age of Ramesh, Suresh and Rajesh was equal to half of the age of their mother. It was during the next five years when Mahesh was born. Then the age of Ms. Kalpana was equal to the sum of the ages of all her children. Time went on and years passed and Dinesh was born and age of Ramesh equaled the sum of the ages of Rajesh and Mahesh. Now, it so happened that the sum of the ages of Ramesh, Suresh, Rajesh, Mahesh and Dinesh was double the age of their mother and was also equal to the sum of the ages of Suresh and Ramesh. Also Ramesh's age was equal to sum of the ages of Mahesh and Dinesh. What is the age of Ms. Kalpana?

	1. 39 years	2. 42 years	3. 41 years	4. None of the above
48.	Find the missing numb	per: - 1, 0, 0,, 8		
	1. 1	2.2	3.3	4.4
49.	Ceiling Fan: Table Far	n : abcdefg:		
	1. abcdefg	2. abcdefg	3. gfedcba	4. None of these

DIRECTIONS *for question 50 and 51: There is a statement followed by two arguments. Choose the correct option which gives the decision on the arguments, which is derived from the statement.*

50. Given Statement: The new amendment of Corporate Social Responsibility (CSR) in India refers to bringing an overall positive impact on the communities, cultures, societies and environments. The fundamentals of CSR rest on the fact that not only public policy but even corporate should be responsible enough to address social issues.

Argument I: Government should not enforce companies to take up CSR.
Argument II: Companies moral responsibility is to take up CSR for a long run benefit.
1. Argument II is correct but Argument I is wrong
2. Argument I is correct but Argument II is wrong
3. Both the arguments are false
4. Both the arguments are correct

51. LPG subsidy is a stand taken by the government. Linking of Aadhar card to a bank account has been made mandatory for receiving the subsidy.

Argument I: All people should give up LPG subsidies. Argument II: To fill the gap between poor and rich.

- 1. Argument II is the output of Argument I
- 2. Argument I is a byproduct of Argument II
- 3. Argument I and Argument II are complementing to each other
- 4. No logical link between Argument I and Argument II
- 52. If CAB is coded as 723 558 in a coded language then how will DAD be coded ?

1. 4023 -5 4023 2. 4090 -5 4090 3. 1024 -5 1024 4. 1246 -5 1189

53. If MONEY is coded as 144 200 171 0 600 then DOLLAR is coded as

1.	- 9	200	199	119	- 24	299
2.	- 8	200	106	106	- 20	200
3.	122	200	102	102	10	154
4.	120	200	101	101	08	156

54. There are 100 MBA aspirants in a classroom and 99% of them are engineers. How many engineers must leave the classroom in order to reduce the percentage of engineers in the classroom to 98% ?

1.1 2.2 3.50 4.90

55. Vikas was showing a photograph to his friend and pointed to a boy and told the following statement "His name is Atul and his maternal grandfather's brother is my maternal grandfather's sister's son." How is Atul related to Vikas ?

1. They are brothers	2. Vikas is the uncle of Atul
3. They are distant cousins	4. None of the above

56. There was a party organized and the following members attended the party : Sheela, Amruta, Rohit, Rahul, Ajey, Ranveer and Gauri.

Sheela is mother-in-law of Amruta, who is sister-in-law of Rohit. Rahul is the father of Ajey. Ajey is the brother of Rohit. Ranveer is the only brother of Rahul and the father-in-law of Gauri. Gauri was married to Rohit. How is Sheela related to Ranveer ?

1. Cousin 2. Mother 3. Sister 4. None of the above

DIRECTIONS *for question 57 and 60:* Using the information given below answer the question from 57 to 60.

A chef is trying a recipe for a tasty ice cream using four ingredients. He can choose from three liquids for taste which are labeled A, B and C which are stable in nature and the choice for flavor can be from four liquids which are labeled W, X, Y and Z. For the new ice cream recipe to be tasty, there must be two liquids from the taste giving liquids. Also certain liquids cannot be mixed because of their reactions which makes it unhealthy for human consumption and the same is given below

B cannot be mixed with W

C cannot be mixed with Y

Y cannot be mixed with Z

- 57. If the chef calculated that Y is the most important flavor and must be used in the recipe, which other ingredients must be part of the recipe ?
 - 1. A, B and W 2. A, B and X 3. A, B and Z 4. B, C and X
- **58.** 'If the chef rejected B because of its possible side effects but decided to use Z, which is a possible combination of the four ingredients in the recipe ?
 - 1. A, C, W and Z 2. A,X,Y and Z 3. A,W,X and Z 4. A,C,Y and Z

59. Which of the following combination of liquids is impossible ?

I. Using Y and W together II. Using B and C together III. Using W, X and Z together

1. I only 2. II only 3. III and I only 4. II and I only

60. Which of the following must always be true ?

I. If C is used W must be added II. If Y is used B must be added III. If C is not used W cannot be added

1. I and II only 2. II and III only 3. I, II and III only 4. II only

61. Which letter from the options given will replace the "?" in the table given below

CAT 389376 DOG RAT 1758276 MAT CAB 15876 FAN CAN 571536 ? 1. MAN 2. GIFT 3. PAN 4. SOFT

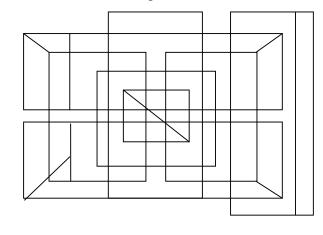
62. Which word from the given options will replace the "?" in the table given below

WOE VANQUISH TACITURNITY SPLEEN	1308	SILENCE		
1. MALEVOLE	1000	·	3. LINK	4. DRIP

63. Which word from the given options will replace the "?" in the table given below

MBA	728	NCB			
BCA	24	CDB			
BCS	24	CDT			
FCA	?	GDB			
1.48			2.168	3.64	4.132

64. What is the least number of straight lines needed to draw the following diagram?

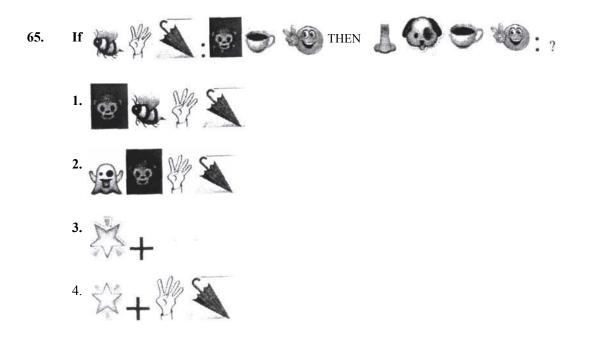


1.39

2.40

3.42

4. None of the above



DIRECTIONS for question 66 and 70: Based on the information given below answer the questions

Ten friends Matt, Sam, Pat, Tom, Sid, Alex, Kat, Jim, Jane and John are having dinner on a rectangular table. Eight facing each other along the length of the table while two facing each other along the smaller side of the table. Pat is sitting diagonally opposite to Kat, Alex is facing Jim, John is to the right of Jane, Tom is sitting between Sam and Jim, Pat is to the extreme left of Jane who is sitting on the extreme right along the length of the table. Sid is facing Tom and Matt is on the right of Sam.

66.	Who do you think is sitting in front of each other along the small sides of the table ?				
	1. Matt and John	2. Matt and Sam	3. Matt and Kat	4. John and Sam	
67.	Sid is sitting between w	which of the following tw	vo ?		
	1. Sam and Kat	2. Pat and Alex	3. Alex and Jane	4. Kat and Jane	
68.	Who are sitting diagona	ally opposite to each othe	er?		
	1. Sid and Tom	2. Sam and Jane	3. Alex and Jim	4. Jane and Kat	
69.	Who is sitting to the im	mediate right of Jim?			
	1. Sam	2. Jane I	3. Alex	4. Tom	
70.	Who is sitting two plac	es left to Jane ?			
	1. Pat	2. Alex	3. Sid	4. Sam	

SECTION – III

GENERAL ENGLISH

Number of questions: 40

71.	"To catch a tartar" mea	ns		
	 To trap wanted criminal with great difficulty To catch a-dangerous person To catch a person who is more than one's match To meet with disaster 			
72.	A leopard can't change	its		
	1. Dots	2. Stripes	3. Colour	4. None of the above
73.	"So sober sometimes se	erious Sam smiles on sill	y things" is a /an	
	1. Hyperbole	2. Assonance	3. Anaphora	4. Alliteration
74.	"The strength given by	my mother is bigger than	n the cosmic energy in th	is cosmos" is
	1. Rhyme	2. Metaphor	3. Personification	4. Hyperbole
75.	The buzzing of bees is	an example of		
	1. Simile	2. Metonymy	3. Onomatopoeia	4. Paradox
76.	The word CACTI is of	Latin origin. It can also l	be replaced by	
	1. Cactus	2. Cats	3. Cactuses	4. Cactusus
77.	The word TROUSSEA	UX is of French origin. I	t can also be replaced by	,
	1. Troussers	2. Trousseaus	3. Troussears	4. None of the above
78.	The singular of the wor	d SCARVES is spelt as		
	1. Scarve	2. Scarfe	3. Scarv	4. None of the above
79.	The "Drawing Pins" in	British English is referre	ed to as in A	merican English.
	1. Thumb pins	2. Board pins	3. Broad pins	4. Thumbtacks
80.	"Aubergine" in Britain	is referred to as in Unit	ed States of America.	
	1. Migraine	2. Eggplant	3. Margarine	4. Egg
81.	Base ball in American	English is commonly refe	erred to as	in British English.
	1. Run ball	2. Strike ball	3. Rounders ball	4. Rounders

82.	weapon				
	1. Nuclear	2. Atomic	3. Molecular	4. Electronic	
83.	Seminal				
	1. News	2. River	3. Nuance	4. Research	
84.	Percentage	e			
	1. Huge	2. Big	3. More	4. Large	
85.	The idiom "Against th	e clock" means			
	 Break the Rules Go back to the Past 		 Rushed and short or Look at the Past 	n time.	
86.	The idiom "Buy a lem	on" means	_		
	 A superstitious way to say 'good luck' ' A lie which is propaganda for people to believe An unbelievable story which is told for people to believe To purchase a vehicle that constantly gives problems or stops running after you drive it away. 				
87.	Kedar uses the follow	ing sentence to introduce	e himself. Choose the cor	rect option.	
	 Myself Kedar, I belong to Mumbai Myself Kedar and I am from Mumbai Myself Kedar from Mumbai None of the above 				
88.	Ram uses the following sentence ?	ing sentence to tell the	time of the day to Shy	am. Which one is the correct	
	 It is 2 pm in the after It is 2 pm in the noce 		2. It is 2 pm4. It is 2 o'clock in the	afternoon	
of corr		then it could be only in		we been underlined. If any rule marked as 1, 2,3 or 4. Choose	
89. 1	$\frac{My \text{ Parents}}{2 3} \text{ are Indian}$	s <u>but I am</u> born <u>in Sydne</u>	<u>ey.</u>		
	1. Only 1	2. 1 and 3	3. Only 3	4. Only 4	
90.	Standing on the top of	the tower the whole city	y <u>could be seen</u> .		

DIRECTIONS for question 82 and 84: Complete the collocation words

 1 2 3
 1. Only 1
 2. Only 2
 3. 1 and 2
 4. None of the above

91. Ganesh is <u>taller than</u> Ramesh <u>but</u> Anoop <u>is more taller</u>.

	1	2	3 4	
1. Only 1		2. Only 2	2 3. Only 3	4. Only 4

DIRECTIONS for question 92 and 96: Read the following passage and answer the questions

"There are several factors that contribute to wisdom. Of these I should put first a sense of proportion; the capacity to take account of all the important factors in a problem and to attach to each its due weight. This has become more difficult than it used to be owing to the extent and complexity of the specialized knowledge required of various kinds of technicians. Suppose, for example, that you are engaged in research in scientific medicine. The work is difficult and is likely to absorb the whole of your intellectual energy. You have no time to consider the effect which your discoveries or invention may have outside the field of medicine. You succeed (let us say), as modern medicine has succeeded, in enormously lowering the infant death-rate, not only in Europe and America, but also in Asia and Africa. This has the entirely unintended result of making the food supply inadequate and lowering the standard of life in the most populous parts of the world. To take an even more spectacular example, which is in everybody's mind at the present time- you study the composition of the atom from a disinterested desire for knowledge and incidentally place in the hands of powerful lunatics the means of destroying the human race. In such ways the pursuit of knowledge may become harmful unless it is combined with wisdom; and wisdom in the sense of comprehensive vision is not necessarily present in specialists in the pursuit of knowledge.

Comprehensiveness alone, however, is not enough to constitute wisdom. There must be, also, certain awareness of ends of human life. This may be illustrated by the study of history. Many eminent historians have done more harm than good because they viewed facts through the distorting medium of their own passions. Hegel had a philosophy of history which did not suffer from any lack of comprehensiveness, since it started from earliest time and continued into an indefinite future. But the chief lesson of history which he sought to inculcate was that from the year A.D. 400 down to his own time, Germany had been the most important nation and the standard bearer of progress in the world. Perhaps one could stretch the comprehensiveness that constitutes wisdom to include not only intellect but also feeling. It is by no means uncommon to find men/ women whose knowledge is wide but those feelings are narrow. Such men / women lack what I am calling wisdom.

I think the essence of wisdom is emancipation, as far as possible, from the tyranny of the here and the now. We cannot help the egoism of our senses. Sight, sound and touch are bound up with our own bodies and cannot be made impersonal. Our emotions start similarly from ourselves. An infant feels hunger or discomfort; gradually with the years his horizon widens, and, in proportion as his thoughts and feelings become less personal and less concerned with his own physical states, he achieves growing wisdom. This is of course a matter of degree. No one can view the world with complete impartiality; however, it is possible to make a continual approach towards impartiality, on the one hand, by knowing things somewhat remote in time or space, and, on the other hand, by giving to such things their due weight in our feelings. It is this approach towards impartiality that constitutes growth in wisdom.

Perhaps in this sense the wisdom can be taught. I think that this teaching should have a larger intellectual element than has been customary in what has been thought of as moral instruction. I think that the disastrous result of hatred and narrow mindedness to those who fed them can be pointed out incidentally in the course of giving knowledge. Knowledge and morals ought not to be too much separated. It is true that the kind of specialized knowledge which is required for various kinds of skills has very little to do with wisdom. But it should be supplemented in education by wider surveys calculated to put it in its place in the totality of human activities. Even the best technicians should also be good citizens, i.e. citizens of the world and not of any one nation. With every increase of knowledge and skill, wisdom becomes more necessary for every such increase augments our capacity of realizing our purposes, and therefore augments our capacity for evil, if our purposes are unwise. The world needs wisdom as it has never needed it before; and if knowledge continues to increase, the world will need wisdom in the future even more than it does now.

- 92. According to the author what results in growth of wisdom ?
 - 1. Widening Knowledge and narrowing feelings
 - 2. Acquiring specialized knowledge which is required for various kinds of skills
 - 3. Viewing the world with complete impartiality
 - 4. None of the above
- **93.** According to the author the essence of wisdom is _____
 - 1. Deliverance from the oppression of here and now
 - 2. Subduing from the oppression of here and now
 - 3. Captivity from the oppression of here and now
 - 4. All of the above
- 94. What according to the author is the relationship between knowledge and wisdom ?
 - 1. As human wisdom increases there is increase in knowledge created
 - 2. As knowledge keeps on increasing there is lesser need of wisdom
 - 3. As knowledge keeps on increasing there is a higher need for wisdom
 - 4. As growth in wisdom stops, knowledge creation stagnates.
- **95.** The example used by the author to explain the ways in which the pursuit of knowledge can be harmful, unless combined with wisdom, is
 - 1. the space mission
 - 2. medicine that lowers infant mortality across the world.
 - 3. the progress of Germany.
 - 4. none of the above.
- 96. What factors according to the author, contribute to wisdom ?
 - 1. a sense of proportion, giving knowledge, study of history, emancipation
 - 2. a sense of proportion, dignity, knowledge, skill
 - 3. comprehensiveness, a sense of proportion, awareness of the end of human life, emancipation from the tyranny of the present
 - 4. none of the above.

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DIRECTIONS *for question 97 and 98:* Read each of the components of the given sentences and mark the component with grammatical error.

97.	I. He is capable a II. twisting any f III. without any s IV. at any time.	act		
	1. Only I	2. Only II	3. Only III	4. Only IV
98.	I. My cousin bro II. in Goa, is eag III. in Mumbai a IV. a glimpse of	er to visit us nd aspires to have		
	1. Only I	2. Only II and III	3. Only IV	4. None of the Above

DIRECTIONS for question 99 and 100: Choose the correct word which best fits for the sentence to be complete and grammatically correct. 99. It was no wonder that after the roads were closed with continuous snow fall, hotels started off the tourists. 2. Taking 1. Raking 3. Beating 4. Looting 100. When the penalty corner was saved, the players in toward the goal keeper to congratulate him 1. closed 2. Went 3. Crashed 4. Pooled 101. The synonym for the word "Inclement" is 2. Intimate 3. Advocacy 4. Immediate 1. Stormy 102. The antonym for the word "Taciturn" is _____ 1. Garrulous 2. Energetic 3. Ephemeral 4. Enigmatic 103. Complete with the appropriate collocation word activism. 2. Legal 4. Lawful 1 Judicial 3. Prosecutional 104. If Propensity : Tendency then 1. Prologue: Epilogue 2. Master: Slave 3. Audacity : Impudence4. Conduct: Immorality 105. If Tepid: Hot then 1. Jealousy : Envy 2. Hatred : Antipathy 3. Unity : Harmony 4. Joy : Ecstasy 106. From the following words pick the odd word out. 2. Satire 3. Ridicule 4. Parable 1. Lampoon 107. From the following words pick the odd word out. 1. Euphemism 2 Maxim 3. Aphorism 4. Dictum 108. From the following words pick the odd word out. 3. Shakedown 4. Bleak 1. Force 2. Intimidation **DIRECTIONS** for question 109 and 110: The questions 109 and 110 have sentences which are incomplete. Pick up one phrase / clause from the options given, that will complete the sentence logically. 109. To ensure success in a difficult task 1. one needs to be persistent 2. persistence is needed 3. you need a person of persistence 4. persistence is what one needs 110. The more we looked at the piece of modern art 1. we liked it less 2. better we liked it 3. the less we liked it 4. we liked it more and more

SECTION – IV

QUANTITATIVE, DATA INTERPRETATION AND DATA SUFFICIENCY

111. A batsman was having 32 runs per innings as his average after 15th innings. His average increased by 2 runs after 16th inning. Then what was his score in the 16th inning?

- 1. 64
 2. 60
 3. 46
 4. 62
- **112.** The least number which is a perfect square and is divisible by each of the numbers 14, 16, 18 is
 - 1. 6048 2. 7056 3. 1008 4. 2046
- **113.** Four people clap after every 20 minutes, 30 minutes, 40 minutes and 50 minutes respectively. All of them clapped together at 10.00 am. Then they will again clap together at _____
 - 1. 3 pm 2. 5 pm 3. 6 pm 4. 8 pm
- 114. Three candidates "A", "B", "C" participated in an election. "A" gets 40% of the votes more than "B". "C" gets 20% votes more than "B". "A" also overtakes "C" by 4000 votes. If 90% voters voted and no invalid or illegal votes were cast, then what will be the number of voters in the voting list?
 - 1. 720002. 800003. 700004. 78500

115. In a competitive exam there were 5 sections. 10% of the total number of students cleared the cut off in all the sections and 5% cleared none of the sections. From the remaining candidates 30% cleared only section 1, 20% cleared only section 2, 10% cleared only section 3 and remaining 1020 candidates cleared only section 4. How many students appeared in the competitive exam ?

- 1. 25502. 28003. 30004. 3200
- **116.** A man sold 3/5th of his articles at a gain of 20% and the remaining at cost price. Find the gain earned in the transaction.
 - 1. 8 2. 10 3. 12 4. 14
- **117.** A trader sells 20 articles at Rs. 54 per article after giving 10% discount and gains 50% profit. If the discount is not given, the profit gained is _____

 1. 56.76%
 2. 66.66%
 3. 62.66%
 4. 63.66 %

- **118.** A bottle contains 50 liters of milk. From this bottle 5 liters of milk was taken out and replaced the water. This process was repeated further for three times. How much milk is now contained in the bottle ?
 - 1. 32.8 liters 2. 34.4 liters 3. 36.8 liters 4. 46.5 liters
- **119.** A ball is dropped from a height of 200 meters. After striking the floor it re-bounces to 4/5th of the height from where it fell. The total distance it travels before coming to rest is _____

1. 1200 meters 2. 1600 meters 3. 1800.meters 4. 1820 meters

Number of questions: 40

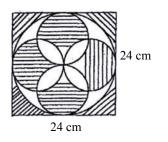
120.	The sum of all two digit numbers that give a remainder 2 when they are divided by 7 is				
	1. 552	2.654	3. 658	4. 684	
121.		his journey by train at 9 tt 10 km/hr. The average		e remainder by bus at 30 km/hr ourney is	
	1. 22.5 km/hr	2. 28.5 km/hr	3. 30.0 km/hr	4. 32.5 km/hr	
122.		s five times older to him t is the ratio of John's age		be two times of his age after 25 er?	
	1. 7:11	2. 5:11	3. 3:11	4. 4:11	
123.		essively divided by 5 and number is successively di		nd 2 respectively. What will be	
	1. 2, 3	2. 2,1	3. 1,2	4. 3,4	
124.	How many zeros wou	ld be there in 1024!			
	1. 240	2. 248	3. 256	4. 252	
125.	If $x = 3 + 2\sqrt{2}$ what y	will be the value of x^2 +	$\frac{1}{x^2}$?		
	1.35	2. 32	3.36	4.34	
126.	The unit digit in the fi	nal solution when, 13*27	7*63*51 *98*46 is		
	1.4	2.8	3.2	4. None of the above	
127.	A dishonest seller sel uses the weight of app		ng a false weight and th	us gains 5% for a kilogram, he	
	1. 940.251	2.943.123	3. 948.238	4. 952.381	
128.		work in 6, 8 and 12 days e of C in that amount ?	respectively. If they do	the work together and earn Rs.	
	1. 600	2.900	3. 1000	4. 700	
129.	How many words each word "UNIVERSAL"	h of two vowels and thre ?	e consonants can be form	ned from the letters of the	
	1. 7000	2. 7200	3. 7400	4. 7800	
130.		A and B can fill the rem		ed working together and after 3 then the number of hours taken	
	1. 100 hours	2. 110 hours	3. 120 hours	4. 130 hours	

- **131.** If the numbers between 1 to 65 which will be divisible by 4 are taken and then if the number present in the units places and tens places is swapped, post which they are written in ascending order, then which of the following number will be at 10th place from the last ?
 - 1. 40 2. 24 3. 44 4. 25
- **132.** Ajit, Ravi and Hari were trying to hit a target. If Ajit hits the target 5 times in 8 attempts, Ravi hits it 3 times in 5 attempts and Hari hits it 2 times in 4 attempts. What is the probability that the target is hit by at least 2 persons ?
 - 1. 40 2. 24 3. 44 4. 25
- 133. If $\frac{1}{2}\log x + \frac{1}{2}\log y + \log 2 = \log (x + y)$ then _____ 1. x = -y 2. x = y + 1 3. x = y 4. y = x + 1
- **134.** $\log_5 25 + \log_2 (\log_3 81)$ is
 - 1.1 2.2 3.3 4.4
- **135.** Peter was standing on the top of a rock cliff facing the sea. He saw a boat coming towards the shore. As he kept seeing time just flew. Ten minutes less than half of an hour, the angle of depression changed from 30 to 60. How much more time in minutes will the boat take to reach the shore ?
 - 1.5 2.10 3.15 4.20
- **136.** In a school where there was a compulsion to learn at least one foreign language from the choice given to them, namely German, French and Spanish. Twenty eight students took French, thirty took German and thirty two took Spanish. Six students learnt French and German, eight students learnt German and Spanish, ten students learnt French and Spanish. Fifty four students learnt only one foreign language while twenty students learnt only German. Find the number of students in the school.
 - 1. 60 2. 62 3. 70 4. None of the Above
- **137.** Sonali can solve 70% of the problems in a competitive exam and Nirali can solve only 60% in the same exam. What is the probability that at least one of them will solve a problem, provided selection of questions is done randomly from the same exam ?
 - 1. 0.82 2. 0.88 3. 0.62 4. 0.72
- **138.** Rs. XYZ was deposited at simple interest at a specific rate for 3 years. Had it been deposited at 2% higher rate, it would have fetched Rs. 360 more. Find Rs. XYZ.
 - 1. Rs. 5500 2. Rs. 5000 3. Rs. 6000 4. Rs. 4500
- **139.** A man invests certain amount at 6% per annum simple interest and another amount at 7% per annum simple interest. His income from the interest after 2 years was Rs. 348. The ratio of first amount to second is 4:5. Find the total amount invested.
 - 1. Rs. 2600
 2. Rs. 2900
 3. Rs. 2700
 4. None of the above

140. A person has a bag which contains 9 bulbs out of which 2 are fused and cannot be used to lighten the room. Two bulbs are selected at random. What is the probability that all the two bulbs chosen can be used to lighten the room?

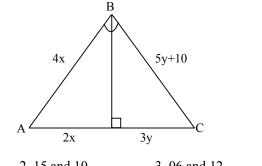
2.7/12 3. 9/12 1.5/12 4. 10/12

- The value of (*p-a*) * (*p-b*) * (*p-c*).....* (*p-z*) is _____ 141.
 - 1. A complex polynomial which starts with p^{24}
 - 2. Zero
 - 3. A complex polynomial which starts with p^{26}
 - 4. A complex polynomial which has several variables including p^{26} and p^{24}
- There are nine humans in a ship, each human has nine cages and each cage has nine huge lions and 142. each lion has nine cubs. How many legs are there in the ship? (Human have two legs, lions have four legs, cubs have four legs.)
 - 1.747 2.3258 3.29178 4.26561
- As shown in the figure, there is a square of 24 cm. A circle is inscribed inside the square. Inside the 143. circle are four circles of equal radius which are inscribed. The total area of the shaded region in the figure given below is



1. 576-196 π 2.584-196π 3. 864-196 π

- 4. None of the above
- In the figure given below the value of x and y would be 144.



4.12 and 06

1. 10 and 15

2.15 and 10

3.06 and 12

145. Mr. Suresh went into a restaurant and had a happy lunch for Rs.162. He paid for the same using a 500 rupee note. He was so happy with the meal and hence purchased a mini snack box for Rs. 37 and paid for the same using a 100 rupee note. Mr. Suresh ensured that he collected the balance from the cashier in both cases. Although he was satisfied with the service, he did not pay any tips to the server. The next day when the cashier went and deposited the money in the bank, it was found by the banker that only the two currency notes which were given by Mr. Suresh were counterfeit notes. As per policy, the bank immediately tore both the notes using their shredding machine. What is the total loss to the restaurant in this transaction ?

146. If $2^x + 2^{x+1} = 48$ then the value of x^x is _____

DIRECTIONS *for question 147 and 150:* Following table shows the percentage population of six states below poverty line and proportion of male and female.

State	% Population	Proportion of	male & female
	below poverty line	Below Poverty line	Above Poverty line
		M:F	M:F
Α	16	2:3	3:4
В	10	4:3	5:2
С	14	3:4	2:3
D	20	5:2	4:3
Е	25	4:1	2:1
F	20	2:3	4:1

147. If the total population of state A is 5000 then what is the no. of females above poverty line in state A?

- 1. 2000 2. 2400 3. 2600 4. Data inadequate
- **148.** If the population of C&D together is 20000 what is the total no. of females below poverty line in the above states?

1. 5000	2.6000	3. 7200	4. NOTA

- **149.** If the population of males below poverty line in state C is 6000 & state E 1000 then what is the ratio of the total population of state C& E is
 - 1. 2: 1 2. 3: 5 3. 11: 5 4. NOTA
- **150.** If in state F population of females below poverty line is 16000, then what is the population of males below poverty line in that state?

1. 8000 2. 6000 3. 12000 4. NOTA

Q.	Key	Explanations
1.	3	
2.	4	
3.	4	
4.	1	
5.	3	
6.	2	
7.	1	
8.	3	
9.	3	
10.	3	
11.	4	
12.	3	
13.	2	
14.	2	
15.	1	
16.	3	
17.	3	
18.	3	
19.	1	
20.	1	
21.	3	
22.	3	
23. 24.	2	
24.	3	
<u>25.</u> 26.	1	
20.	2	
27.	4	
20.	2	
30.	3	
31.	1	
32.	3	
33.	3	
34.	1	
35.	3	
36.	3	
37.	4	
38.	2	
39.	1	
40.	1	
41.	3	Any of the 2 bulbs are switched on one after the other for a different period of time i.e. one for a longer
		period and other shorter. Now we go upstairs. The hotter bulb is the one which was turned on for more
		time and vice-versa. Hence, the answer is 3 rd option.
42.	4	As amount of pre-paid expenses in the balance sheet, which were booked from the previous year to the
		current year was increased, means cash has reduced. Also what he gets from his fixed deposits
		increases, which is in equal to his sundry expenses. Hence the final effect on cash for this year is that it
12		reduces.
43.	2	option 1 is incorrect as in this "Placements - my goal" is shown before "MBA Go Getters" which is
		against condition 3.
		option 3 is incorrect as in this "Placements - my goal" is shown before "The Life is your choice" which is against condition 3.
		option 4 is incorrect as in this "Laugh for a while" is shown after "MBA - Maha Budhiman Aadmi"
		which is against condition 2
		Hence option 2 is correct which is satisfying all the conditions.
44.	1	Using the relation given between John & Joe and John & Jonathan we can calculate the ratio of their
		distribution of coins which also happens to be the ratio of their ages. As per the question, if John takes
	1	and the second s

		4 gold coins, Joe takes 3. So ratio between John : Joe = $4 : 3$ and if John takes 6 coins, Jonathan takes 7. So, ratio between John : Jonathan = $6 : 7$. Combining the 2 ratios we get John : Joe : Jonathan = 12 :
		9 : 14 Now this totals upto 35. But the total of their ages = 17.5. Hence, their ages will be half of the given
		ratio i.e. John = 6 Joe = 4.5 and Jonathan = 7.
45.	3	When clock takes 7 seconds to strike 7, it means the clock takes 7 seconds to cover 6 gaps of time
	5	periods in between 7 gongs. Now to strike 11 o'clock the time periods will be 10. So, time taken will
		be $\frac{7}{6} \times 10 = 11.67$ sec.
		0
46.	2	The series is $2^2 - 2$, $3^2 - 3$, $5^2 - 5$, $7^2 - 7$, $11^2 - 11$. So answer is $13^2 - 13$ i.e. 156.
47.	3	The logic is 0^2 -1, 1^2 -1, 2^2 -1 and 3^2 -1. So answer is 2^2 -1 = 3
48.	2	Let G, S, R & N be their ages 15 years back. Let Amit & Keshav be born after x & y years,
		Thus their ages after 15 years can be written as A-x & $K - y$ respectively. Thus the following equations are formed:
		G = 2 (S + R + N)(1)
		$2(G+15) = (S+15) + (R+15) + (N+15) + \{A + (15 - x)\} + \{K + (15 - y)\} \dots (2)$
		$S + 15 = \{A + (15 - x)\} + \{K + (15 - y)\} \dots \dots (3)$
		G + 15 = (S + 15) + (R + 15)(4) Substituting equation 3 in 2 & then equation 4 in the new equation formed, we get $R = N$. Thus $G = 24$.
		Therefore G's present age is $24 + 15 = 39$ years.
49.	3	Since R = N, therefore Ridhi & Nidhi are twins.
50.	1	The statement says that CSR should be followed not only by public but also by corporate which makes
		argument II as strong one. So the answer is option 1.
51.	4	As statement talks about importance of Aadhar card in getting LPG subsidy, the arguments seem to have no link in between. Hence, answer should be option 4.
52.	2	Looking at the options we conclude that (-5) is common in all choices so (A) will be coded as (-5).
52.	2	Now as C is 3 as per EJOTY, so squaring it makes 9 and further cubing it makes 729. Now subtract 6
		to get 723. The same is applicable for B also which makes $2 \rightarrow 4 \rightarrow 64 - 6 \rightarrow 58$. Now D $\rightarrow 4 \rightarrow 16$
		$\rightarrow 4096 - 6 \rightarrow 4090.$
		Hence answer is 2 nd option.
53.	1	Logic used is $(ENJOTY)^2 - 25$.
		i.e. MONEY = $(13)^2 (15)^2 (14)^2 (5)^2 (25)^2$ 169 225 196 25 625
		-25 - 25 - 25 - 25 - 25
		$= 144 \ 200 \ 171 \ 0 \ 600$
		Hence DOLLAR is option 1
54.	3	Total aspirants = 100. Engineers = 99.
		Now to make the engineers 98% of total so $99 - x = \frac{98}{100} (100 - x)$. Solving x = 50.
55.	2	Vikas is the uncle of Atul.
56.	4	(+) (+) (-)
		Ranveer (Brother) Rahul (Father) Sheela (Mother)
		(-) (+) (+)
		<u>Gauri</u> <u>Rohit</u> <u>Amruta</u> <u>Ajay</u>
		Hence, Sheela is the sister-in-law of Ranveer.
57.	2	If Y is used, then C cannot be used. So, A & B must be used. If B is used then W cannot be used. So,
50	1	the only ingredients left are A, B & X. If B is rejected then A & C must be used. Also Z is used so Y cannot be used but W has to be used due
58.	1	to B's rejection. Hence, ingredients used are A, C, W & Z.
59.	3	I) W & Y if used then we cannot used B & C which is not possible
	-	II) B & C can be used together.
		· · · · · ·

		III) W, X & Z cannot be used together as we will be left with only one ingredient to be used out of A, B
		& C which is not possible. Hence, option 3 rd
60.	2	I) If C is used Y is not used and Z can be used. Now we are left with one ingredient out of W & X so
		we can use any. So, must not be true.
		II) If Y is used, C cannot be used hence, A & B must be used.
61.	2	III) If C is not used, A & B must be used and W cannot be used. Hence, option 2 nd .
01.	2	The logic used is product of the squares of EJOTY sum i.e. e.g. $CAB = 3 + 1 + 2 = 6^2 = 36$. $FAN = 6 + 1 + 14 = 21^2 = 441$. $\Rightarrow 441 \times 36 = 15876$
		-
		Hence, CAN = 3 + 1 + 14 = 18 ² = 324. So, $\frac{571536}{324} = \sqrt{1764} = 42 \Rightarrow \text{GIFT}(7 + 9 + 6 + 20)$
(2)		
62.	4	The logic used is addition of the EJOTY sum of two words is done and then reversed. e.g. WOE = 43 and MISERY = $89 \Rightarrow 89 + 43 = 132 \Rightarrow 231$
		Now, SPLEEN = 71 and total should be 118. So, the EJOTY of other word must be 47 which is DRIP.
63.	4	The logic used is that we take the EJOTY sum of both the letter groups and write them in reverse order
00.	l .	i.e. $MBA = 16$ and $NCB = 19$ so we take 1916. Likewise $BCA = 6$ and $CDB = 9$ so we have 96
		and finally $FCA = 10$ and $GDB = 13$ so answer is 1310.
64.	1	Counting the straight lines we get 39.
65.	3	The logic used is that take the first letter of the word represented by pictures i.e.
		(B)EE - (4) Fingers - (U)MBRELLA = B4U
		(M)ONKEY - (T)EA - (V)ICTORY = MTV
		(N)OSE - (D)OG - (T)EA - (V)ICTORY = NDTV Since all are TV channels so only option is 3 rd which is STAR PLUS
66-		Since an are 1 v channels so only option is 5 which is STAR PLUS
70.		SAM TOM JIM KAT
10.		
		MATT + JOHN
		PAT SID ALEX JANE
66.	1	As per the diagram we observe that Matt and John are sitting in front of each other along the
		small sides of the table.
67.	2	As per the diagram we observe that Sid is sitting between Pat and Alex.
68.	2	As per the diagram we observe that Sam and Jane are sitting diagonally opposite to each other.
69.	4	As per the diagram we observe that Tom is sitting to the immediate right of Jim.
70.	3	As per the diagram we observe that Sid is sitting two places left to Jane.
71.	2	To catch a tartar means to catch a dangerous person
72.	4	The correct idiom is that leopard can't change its spots
73.	1	Hyperbole is the exaggeration of something and here also the same thing has happened. Assonance
74.	2	means resemblance, anaphora means repetition and Alliteration means occurrence of same letterMetaphor is an implied comparison and here the strength of a mother is compared with cosmic energy
/ 4.		in cosmos.
75.	3	Onomatopoeia is something which imitates a natural sound of a thing.
76.	1	This word can be replaced by cactus
77.	4	The word TROUSSEAUX can be replaced by Trousseau, hence the answer is none of the above.
78.	4	The singular form of scarves should be scarf. So none of the above should be the answer.
79.	1	Drawing pin is referred as a thumb stack or a thumb pin.
80.	2	Aubergine is referred to as eggplant in USA.
81.	4	Baseball is called as Rounders in British English
82.	1	Nuclear weapon should go well in the blank Saminal Passarah is a company's name
83.	4	Seminal Research is a company's name.
Q./	1	I arge percentage is the correct usage
84. 85.	4	Large percentage is the correct usage 'Against the clock' means to do the work as fast as possible.

97	1	It is a superstitious way to say good help
86.	1	It is a superstitious way to say good luck.
87.	4	Sentence never starts with myself It should be 2 o'clock in the afternoon
88.	4	
89.	2	Parents 'P' should not be in capital and 'was' in place of 'am'
<u>90.</u>	4	Since the sentence is in present tense, it should be 'can be' instead of 'could be'
91.	4	It should be 'taller' and not 'more taller'
92.	3	Refer 3rd Para, Last line "it is this in wisdom"
93.	2	Refer 3rd Para, 1st line, "I thinksenses"
94.	3	Refer Last Para, 8th line, "With every are unwise"
<u>95.</u>	2	Refer 1st Para, 4th line, "Suppose, for examplepursuit of knowledge"
96.	3	It is mentioned in the paragraph that above mentioned four things contribute to wisdom. This question is based on understanding of the whole passage.
97.	1	It should be 'capable of' instead of 'capable at'.
98.	1	It should be cousin, not cousin brother
99.	1	As per the context it should be 'hotels started charging higher than stipulated so 'raking off', which
		means 'taking/extracting money illegally'.
100.	3	Crashed in means something happening loud or to collide
101.	1	Inclement means something very cold or stormy
102.	1	Taciturn means shy and the opposite is garrulous which means somebody who speaks a lot.
103.	1	It is judicial activism which means a political issue.
104.	3	Since the given pair is of synonyms, hence the answer should also be a synonym pair
105.	4	Tepid means lukewarm i.e. lesser than hot, so Joy means happiness lesser than ecstasy which means
		intense happiness.
106.	4	Parable means a lesson whereas the rest of the words mean mocking
107.	1	Euphemism means indirect way to soften the blow, but rest of the words mean a proverb
108.	4	Bleak means dull whereas rest of the words mean fear
109.	2	The name of the attribute will come and not the ambiguous pronoun.
110.	2	Parallelism should be maintained. "the more the better"
111.	1	Total score after 15 innings = $15 \times 32 = 480$
		As the average increased by 2, so the new average is 34.
		Total score after 16 innings = $16 \times 34 = 544$
		Hence score in 16^{th} inning = $544 - 480 = 64$
112.	2	The LCM of 14, 16, and 18 is 1008.
		Among the given options, only 7056 is a perfect square and is divisible by 1008.
113.	4	The LCM of 20, 30, 40, 50 is 600
		So they will clap together after 600 minutes or 10 hours. So they will again clap together at 8pm
114.	2	Let B got x votes, so A got 1.4x & C got 1.2x
		Given that $1.4x - 1.2x = 4000$
		\Rightarrow x = 20000
		Hence total number of voters who voted = $x + 1.4x + 1.2x = 3.6x$
		$= 3.6 \times 20000 = 72000$
		Now as 90% people voted, so 90% of total voters = 72000
		$\Rightarrow \text{Total voters} = \frac{72000}{90} \times 100 = 80000$
		90 ×100 = 00000
115.	3	Let total students are 100. So 15 cleared either no section or all sections. Out of the remaining 85
		students, 60% cleared 1 section or 2 sections or 3 sections. So the no. of students who cleared 4
		sections are 40% of $85 = 34$.
		Now if 34 students cleared section 4, total students are 100
		100 1020 2000
		If 1020 students cleared section 4, total students = $\frac{100}{34} \times 1020 = 3000$.
116.	3	As the man sold $3/5$ of the articles at 20% gain and rest at cost price, so the net percentage gain =
		$\frac{3}{5} \times 20 = 12\%$
117.	2	Let the marked price = Rs. 100
		90 p. (0
		As after giving a discount of 10%, he is gaining 50%, so cost price = $\frac{90}{1.5}$ = Rs 60
	I	1.5

		Now if there is no discount, then SP = Rs. 100. \therefore Gain = 100 - 60 = Rs. 40.
		$\frac{40}{100} \times 100 - 66.66\%$
		:. %age Gain = $\frac{40}{60} \times 100 = 66.66\%$
118.	1	Total milk = 50 L
110.		Volume of Mixture / Milk replaced each time = 51.
		As this process is repeated 4 times, so the milk remained = $50\left(1-\frac{5}{50}\right)^4$
		(50)
		$50 \left(9\right)^4 50 \times 9 \times 9 \times 9 \times 9$
		$= 50 \times \left(\frac{9}{10}\right)^{4} = \frac{50 \times 9 \times 9 \times 9 \times 9}{10 \times 10 \times 10 \times 10} = 32.8 \ litre$
119.	3	The first time, the ball covered 200m. After that it covered each distance twice, once upward and then
117.		downward.
		So the total distance covered
		$= 200 + 2(160 + 128 + \dots)$
		$= 200 + 2 \left \frac{160}{1 - \frac{4}{5}} \right = 200 + 2 \left[160 \times 5 \right]$
		$= 200 + 2 \left \frac{100}{4} \right = 200 + 2 \left[160 \times 5 \right]$
		$1 - \frac{1}{2}$
100		= 200 + 2 (800) = 200 + 1600 = 1800m
120.	2	The two digit numbers which give remainder 2, when divided by 7 are 16, 23, 30, 37,93. These are 12 numbers which form an A.P. with first term 16 and common difference 7.
		Their sum = $\frac{12}{2} [16 + 93] = 109 \times 6 = 654.$
121.	1	Let the total distance $= x \text{ km}$
		Average speed = $\frac{\text{Total dis tan ce}}{\text{Total time}}$
		Total time
		x 1
		$=\frac{x}{\frac{x}{2}\times\frac{1}{90}+\frac{1}{3}\times\frac{x}{2}\times\frac{1}{30}+\frac{x}{3}\times\frac{1}{10}}=\frac{1}{\frac{1}{180}+\frac{1}{180}+\frac{1}{30}}$
		$\frac{1}{2} \times \frac{1}{90} + \frac{1}{3} \times \frac{1}{2} \times \frac{1}{30} + \frac{1}{3} \times \frac{1}{10} + \frac{1}{180} + \frac{1}{180} + \frac{1}{30}$
		$=\frac{1}{1+1+6}=\frac{180}{8}=22.5k/h.$
122	2	$\frac{180}{1000}$
122.	3	Let John's age 5 years ago = x His grandfather's age, 5 years ago = $5x$.
		John's age after 25 years = $x + 30$
		John's grandfather's age after 25 years = $5x + 30$
		Given that $5x + 30 = 2 (x + 30)$
		5x + 30 = 2x + 60
		3x = 30
		x = 10
		\therefore John's present age = x + 5 = 10 + 5 = 15 years.
		His grandfather's present age = $5x + 5 = 5 \times 10 + 5 = 55$ years
		: Reqd. Ratio is 15 : 55 or 3 : 11
123.	3	Let the quotient of last division is 1.
		So the number is $5 \times (6 \times 1 + 2) + 3 = 5 \times 8 + 3 = 43$ Now when 43 is divided successively by 3 and 4 the remainders are 1 and 2 respectively.
124.	4	Now when 43 is divided successively by 3 and 4 the remainders are 1 and 2 respectively. The no. of zeroes are
124.	4	
		$\left[\frac{1024}{5}\right] + \left[\frac{1024}{5^2}\right] + \left[\frac{1024}{5^3}\right] + \left[\frac{1024}{5^4}\right] + \left[\frac{1024}{5^5}\right] + \dots $
		$\left \left[\begin{array}{c} 5 \end{array} \right] \left[\begin{array}{c} 5^2 \end{array} \right] \left[\begin{array}{c} 5^3 \end{array} \right] \left[\begin{array}{c} 5^4 \end{array} \right] \left[\begin{array}{c} 5^5 \end{array} \right]$
		= 204 + 40 + 8 + 1 = 253.
125.	4	We have $x = 3 + 2\sqrt{2}$

		$\Rightarrow x^{2} = (3 + 2\sqrt{2})^{2} = 9 + 8 + 12\sqrt{2} = 17 + 12\sqrt{2}$
		and $\frac{1}{x^2} = \frac{1}{17 + 12\sqrt{2}} \times \frac{17 - 12\sqrt{2}}{17 - 12\sqrt{2}} = \frac{17 - 12\sqrt{2}}{289 - 288} = 17 - 12\sqrt{2}$
		$\therefore x^{2} + \frac{1}{x^{2}} = 17 + 12\sqrt{2} + 17 - 12\sqrt{2} = 34$
126.	1	The unit digit of $13 \times 27 \times 63 \times 51 \times 98 \times 46$ is same as that of $3 \times 7 \times 3 \times 1 \times 8 \times 6$ which is 4.
127.	4	We know that, in case of wrong wt.
		$\frac{1000 - \text{false wt.}}{\text{false wt.}} \times 100 = 5$
		false wt.
		$\Rightarrow 1000 \times 100 - 100f = 5f$
		$\Rightarrow 100000 = 105f$
		$\Rightarrow f = \frac{100000}{105} = 952.381$
128.	1	 ∴ The weight used is 952.381gm. A, B, C can do the work in 6, 8 and 12 days respectively. Let the total work is 24 units. Hence A can do
120.	1	4 units/day, B can do 3 units/day, C can do 2 units/day.
		\therefore Work done by A, B, C is in ratio 4 : 3 : 2.
		∴ Rs. 2700 will be divided among A, B and C in 4 : 3 : 2
		\therefore C's share = $\frac{2}{0} \times 2700$ = Rs.600
129.	2	In the word UNIVERSAL, we have 4 vowels U, I, E and A and 5 consonants N, V, R, L and S. We
	_	have to find the no. of words using 2 vowels and 3 consonants.
		:. Total words = $4_{C_2} \times 5_{C_3} \times 5! = 6 \times 10 \times 120 = 7200$.
130.	3	Let the tank is of 12 L and A, B, C can fill it in 12 hrs. So A, B, C are filling 1 L in 1hr. So in 3 hours,
		the total tank filled is 3 L. The remaining 9 L is filled by A & B in 10 hours.
		\therefore A & B together can fill $\frac{9}{10}l$ in 1 hours.
		So in 3 hours, A & B can fill $\frac{27}{12}$ <i>l</i> .
		10
		Hence in 3 hours, C has filled $3 - \frac{27}{10} = \frac{3}{10}$ l.
		10 10
		Now $\frac{3}{10}$ <i>l</i> is filled by C in 3 hours.
		\therefore 12 <i>l</i> is filled by C in $3 \times \frac{10}{2} \times 12 = 120$ hours
131.	1	3 The numbers between 1 and 65, which are divisible by 4 are 04, 08, 12, 16, 20, 24, 24, 28, 32, 36, 40,
131.	1	44, 48, 52, 56, 60, 64.
		Now after swapping the unit digit and ten's digit we have 40, 80, 21, 61, 02, 42, 82, 23, 63, 04, 44, 84,
		25, 65, 06, 46.
		Their increasing order is 02, 04, 06, 21, 23, 25, 40, 42, 44, 46, 61, 63, 65, 80, 82, 84. Hence 10 th number from the last is 40.
132.	2	Probability of Ajit = $5/8$
		Probability of Ravi = $3/5$
		Probability of Hari = $\frac{1}{2}$ Probability that the target is hit by at least 2 percent = 1. [Prob of no hit + Prob of 1 hit]
		Probability that the target is hit by at least 2 persons = $1 - [Prob of no hit + Prob of 1 hit].$
		$=1 - \left[\frac{3}{8} \times \frac{2}{5} \times \frac{1}{2} + \frac{5}{8} \times \frac{2}{5} \times \frac{1}{2} + \frac{3}{8} \times \frac{3}{5} \times \frac{1}{2} + \frac{3}{8} \times \frac{2}{5} \times \frac{1}{2}\right]$
		$=1 - \left[\frac{6 + 10 + 9 + 6}{80}\right] = 1 - \frac{31}{80} = \frac{49}{80}$

133.	3	We have $\frac{1}{2}\log x + \frac{1}{2}\log y + \log 2 = \log (x + y)$
		$\Rightarrow \log 2\sqrt{xy} = \log (x + y).$
		$\Rightarrow x + y = 2\sqrt{xy}$
		$\Rightarrow (x + y)^2 = 4xy$ $\Rightarrow x^2 + y^2 + 2xy = 4xy$
		$\Rightarrow x^2 + y^2 + 2xy = 4xy$ $\Rightarrow x^2 + y^2 - 2xy = 0$
		$\Rightarrow (\mathbf{x} - \mathbf{y})^2 = 0$
		$\Rightarrow x - y = 0$ $\Rightarrow x = y$
134.	4	We have $\log_5 25 + \log_2 (\log_3 81) = \log_5 5^2 + \log_2 (\log_3 3^4)$
		$= 2\log_5 5 + \log_2 (4 \log_3 3) = 2 + \log_2 4 = 2 + \log_2 2^2$
		$= 2 + 2\log_2 2$ = 2 + 2
125	2	=4
135.	2	Let AB is the rock and the boat is going from C to D. We have $\angle BCA = 30^{\circ}$ and $\angle BDA = 60^{\circ}$ Let AB = x
		In $\triangle ABD$, $\frac{AB}{AD} = \tan 60^\circ = \sqrt{3} \Rightarrow \frac{x}{AD} = \sqrt{3} \Rightarrow AD = \frac{x}{\sqrt{3}}$
		B
		60° 30°
		A $\frac{x}{\sqrt{3}}$ D $\frac{2x}{\sqrt{3}}$
		$\sqrt{3x}$
		In $\triangle ABC$, $\frac{AB}{AC} = \tan 30^\circ \Rightarrow \frac{x}{AC} = \frac{1}{\sqrt{3}} \Rightarrow AC = \sqrt{3}x$
		$\therefore CD = AC - AD = \sqrt{3x} - \frac{x}{\sqrt{3}} = \frac{2x}{\sqrt{3}}$
		Now the boat takes 20 minutes to cover $\frac{2x}{\sqrt{3}}$ distance
		So it will take 10 minutes to cover $\frac{x}{\sqrt{3}}$ distance.
		Hence it will reach the shore in 10 minutes.
136.	1	Let the number of students who learnt all the three languages is x. Now $20 + 6 - x + x + 8 - x = 30$
		$\Rightarrow 34 - x = 30$
		\Rightarrow x = 4
		1

		$G(30) \xrightarrow{6} F(20)$ $20 \xrightarrow{6-x} 10$ $S(30)$ Hence the total number of students $= 30 + 20 + 30 - 6 - 8 - 10 + 4 = 60$
137.	2	Probability that Sonali can solve the problem = $P(S) = \frac{7}{10}$
		Probability that Nirali can solve the problem = $P(N) = \frac{6}{10}$
		Probability that at least one of them will solve the
		Problem = 1 – (none has solved it) = 1 - $\left(\frac{3}{10} \times \frac{4}{10}\right) = 1 - \frac{12}{100} = \frac{88}{100} = 0.88$
138.	3	Let 'a' is the amount invested and 'r' is the rate percent per annum.
		$\therefore \frac{\mathbf{a} \times (\mathbf{r} + 2) \times 3}{100} - \frac{\mathbf{a} \times \mathbf{r} \times 3}{100} = 360$
		$\Rightarrow \frac{a \times 6}{100} = 360 \Rightarrow a = Rs. \ 6000.$
139.	3	The ratio of first amount to second is 4 : 5
		Let the two amounts are $4x \& 5x$ respectively. $4x \times 6 \times 2 5x \times 7 \times 2$
		Now we have $\frac{4x \times 6 \times 2}{100} + \frac{5x \times 7 \times 2}{100} = 354$
		$\Rightarrow \frac{118x}{100} = 354$
		$ \begin{array}{c} 100 \\ \Rightarrow x = 300 \end{array} $
		Hence the total amount invested = $4x + 5x = 9x = 9 \times 300 = 2700$
140.	2	The total no. of selection of 2 bulbs out of $9 = 9_{C_2}$
		As the two selected bulbs can be used to lighten the room, hence it can be done in 7_{C_2} ways.
		\therefore Reqd. Probability = $\frac{7_{C_2}}{1} = \frac{7 \times 6}{1} = \frac{7}{1}$
		$\therefore \text{ Reqd. Probability} = \frac{7_{C_2}}{9_{C_2}} = \frac{7 \times 6}{9 \times 8} = \frac{7}{12}$
141.	4	We have $\mathbf{x} = (\mathbf{p} - \mathbf{a}) \times (\mathbf{p} - \mathbf{b}) \times (\mathbf{p} - \mathbf{c}) \times \dots \times (\mathbf{p} - \mathbf{z}).$
		As it contains 26 terms, so the product will have one of the terms as (p - p) which is zero. Thus, the product of the 26 terms with one term being zero will be surely zero. Hence option 2 is the answer.
142.	3	In one cage there are 9 lions and 81 cubs.
		So there are 90 animals in one cage Hence there are 360 legs in one cage.
		Since one man has 9 cages, so total legs of animals with one man = $9 \times 360 = 3240$
143.	4	Now there are 9 men, so total legs = $3240 \times 9 + 9 \times 2 = 29160 + 18 = 29178$ We will solve this question in parts.
		(i) Area of shaded region $-576 - 7(12)^2$
		$= 576 - \pi (12)^{2}$ = 576 - 144 π
		24
		<u> </u>

		(ii) Area of shaded region = Area of quarter circle – Area of triangle = $\frac{1}{4} \times \pi(6)^2 - \frac{1}{2} \times 6 \times 6 = 9\pi - 18$
		(iii) Area of shaded circle = Area of circle – Area of 2 petals = $\pi (6)^2 - 4 (9\pi - 18)$ = $36\pi - 36\pi + 72 = 72$
		Thus area of 4 shaded circular regions = $72 \times 4 = 288$
144.	1	Hence total shaded area of given figure = $576 - 144\pi + 288 = 864 - 144\pi$ The area of the 1 st circle is $35^2 \times \pi = 1225\pi$.
	1	The diameter of the trice is $35 \times n = 1225n$. The diameter of the circle becomes the hypotenuse of the triangle. So the sides of the triangle are $35\sqrt{2}$ each and the semi-perimeter of the triangle is $35(\sqrt{2} + 1)$. If <i>r</i> is the in-radius of this triangle, then $\frac{1}{2} \times 35\sqrt{2} \times 35\sqrt{2} = r \times 35(\sqrt{2} + 1)$ $\Rightarrow r = 35 / (\sqrt{2} + 1)$.
		\Rightarrow <i>r</i> - 55 / (v2 + 1). So the diameter of this circle is 70 / (v2 + 1) and this is also the hypotenuse of the 2 nd triangle.
		The sides of this triangle are $35\sqrt{2}/(\sqrt{2}+1)$ and this is also the hypotential of the 2 thangle.
		= $1225/(\sqrt{2}+1)^2$. The required ratio is $\pi(\sqrt{2}+1)^2$.
145.	2	Suresh had lunch for Rs. 162 and took back Rs. 338. Similarly he had smack box for Rs. 37 and took back Rs. 63
		So in total he took $162 + 338 + 37 + 63 = \text{Rs.} 600$ from the restaurant. Now you can assume that he
		gave no money to the restaurant. (As both of his notes were counterfeit). So the restaurant gave him Rs.
146	2	600 and got nothing. So the total loss is Rs. 600. We have $2^{x} + 2^{x+1} = 48$
146.	3	We have $2^x + 2^{x-x} = 48$ $\Rightarrow 2^x (1+2) = 48 \Rightarrow 3 \times 2^x = 48 \Rightarrow 2^x = 16$
		$\Rightarrow 2^{x} = 2^{4} \Rightarrow x = 4.$
		Hence $x^{x} = 4^{4} = 256$
147.	2	Total population of $A = 5000$
		Since 16% population is below poverty lines so 84% is above poverty line ∴ Pop. above poverty line = 84% of 5000 = 4200
		Ratio of males and females above poverty line is $3:4$
		\therefore No. of females above poverty line = $\frac{4}{7} \times 4200 = 2400$
148.	4	As the total population of C & D is given, so we cannot find the individual number of females below poverty line.
149.	1	The ratio of Males and Females below poverty line in C is 3 : 4. Since there are 6000 males below
		poverty line in C, so there will be 8000 females below poverty line. Hence total people below poverty
		line in C = $6000 + 8000 = 14000$. Now this is 14% of total population.
		Hence 14% of total population = 14000 \therefore Total pop = 100000
		The no. of males below poverty line in E is 10000 and the ratio is 4 : 1. Hence there are 2500 females
		in E below poverty line. So total people below poverty line is 12500 which is 25% of total population.
		Hence total population of state $E = 50000$
150.	3	Hence the reqd. ratio is 100000 : 50000 or 2 : 1 The no. of females below poverty line is 18000 and the ratio of males and females in state F below
130.		poverty line is

2 : 3. Let there are x males.
Hence $\frac{x}{18000} = \frac{2}{3} \Rightarrow x = 12000.$